

Title (en)

1H-PYRAZOL DERIVATIVES, METHOD FOR PRODUCING THE SAME AND THE USE THEREOF AS NITRIFICATION INHIBITORS

Title (de)

1H-PYRAZOL-DERIVATE, VERFAHREN ZU IHRER HERSTELLUNG UND DEREN VERWENDUNG ALS NITRIFIKATIONSINHIBITOREN

Title (fr)

DERIVES DE 1H-PYRAZOLE, LEUR PROCEDE DE PRODUCTION ET LEUR UTILISATION EN TANT QU'INHIBITEURS DE NITRIFICATION

Publication

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Application

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Abstract (en)

[origin: WO03104201A1] The invention relates to 1H-pyrazol derivatives of general formula (I), in which R<1> represents a C1-C4 alkyl group or C3-C8 cycloalkyl group, R2 represents H, halogen (F, Cl, Br, I), a C1-C4 alkyl group or a C3-C8 cycloalkyl group, R<3> represents H and R<4> represents C1-C20 alkyl, C3-C8 cycloalkyl, C6-C10 aryl or alkylaryl with C1-C4 alkyl and C6-C10 aryl groups, whereby the alkyl and aryl groups of R<4> can be substituted by a halogen, hydroxyl, trimethylsilyl, amino, nitro, cyano, carbonyl, carboxyl or a carboxyalkyl group with between 1 and 5 C-atoms. The inventive compounds are suitable for inhibiting or controlling nitrification. In addition to an excellent nitrification inhibiting action, they exhibit a negligible tendency to hydrolyse and can be easily applied to the fertiliser surface as a result of their hydrophobic properties.

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